

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shunpei YAMAZAKI et al. Art Unit : Unknown
Serial No. : Not assigned yet Examiner : Unknown
Filed : March 20, 2001
Title : ELECTRONIC DEVICE

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the claims:

Please amend claims 10, 11, and 16-22 as follows:

10. (Amended) An electronic device according to claim 1, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.
11. (Amended) An electronic device according to claim 1, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.
16. (Amended) An electronic device according to claim 12, wherein:
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.
17. (Amended) An electronic device according to claim 12, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

18. (Amended) An electronic device according to claim 12, wherein:
the second EL elements each have an anode, a cathode, and an EL layer formed between
the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.

19. (Amended) An electronic device according to claim 12, wherein the maximum value
of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

20. (Amended) An electronic device according to claim 1, wherein the electronic device
has a CCD light receiving portion.

21. (Amended) An electronic device according to claim 20, wherein an image is taken in
as electronic data in the CCD light receiving portion.

22. (Amended) An electronic device according to claim 1, wherein:
the display portion has a touch panel; and an image written into the touch panel is read in
as electronic data.

Please add new claims 31-103 as follows:

--31. An electronic device according to claim 2, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the
anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--32. An electronic device according to claim 3, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the
anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--33. An electronic device according to claim 4, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--34. An electronic device according to claim 5, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--35. An electronic device according to claim 6, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--36. An electronic device according to claim 7, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--37. An electronic device according to claim 8, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--38. An electronic device according to claim 9, wherein:
the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and
the external quantum efficiency of the EL layer is equal to or greater than 10%.--

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--39. An electronic device according to claim 2, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--40. An electronic device according to claim 3, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--41. An electronic device according to claim 4, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--42. An electronic device according to claim 5, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--43. An electronic device according to claim 6, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--44. An electronic device according to claim 7, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--45. An electronic device according to claim 8, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--46. An electronic device according to claim 9, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--47. An electronic device according to claim 10, wherein the strength of light emitted by the EL elements is equal to or greater than 251 m/W.--

--48. An electronic device according to claim 13, wherein;
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--49. An electronic device according to claim 14, wherein;
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--50. An electronic device according to claim 15, wherein;
the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--51. An electronic device according to claim 13, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.--

--52. An electronic device according to claim 14, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.--

--53. An electronic device according to claim 15, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.--

--54. An electronic device according to claim 16, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.--

--55. An electronic device according to claim 13, wherein:
the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--56. An electronic device according to claim 14, wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--57. An electronic device according to claim 15, wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--58. An electronic device according to claim 16, wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--59. An electronic device according to claim 17, wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.--

--60. An electronic device according to claim 13, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--61. An electronic device according to claim 14, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--62. An electronic device according to claim 15, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--63. An electronic device according to claim 16, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--64. An electronic device according to claim 17, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--65. An electronic device according to claim 18, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.--

--66. An electronic device according to claim 2, wherein the electronic device has a CCD light receiving portion.--

--67. An electronic device according to claim 3, wherein the electronic device has a CCD light receiving portion.--

--68. An electronic device according to claim 4, wherein the electronic device has a CCD light receiving portion.--

--69. An electronic device according to claim 5, wherein the electronic device has a CCD light receiving portion.--

--70. An electronic device according to claim 6, wherein the electronic device has a CCD light receiving portion.--

--71. An electronic device according to claim 7, wherein the electronic device has a CCD light receiving portion.--

--72. An electronic device according to claim 8, wherein the electronic device has a CCD light receiving portion.--

--73. An electronic device according to claim 9, wherein the electronic device has a CCD light receiving portion.--

--74. An electronic device according to claim 10, wherein the electronic device has a CCD light receiving portion.--

--75. An electronic device according to claim 11, wherein the electronic device has a CCD light receiving portion.--

--76. An electronic device according to claim 12, wherein the electronic device has a CCD light receiving portion.--

--77. An electronic device according to claim 13, wherein the electronic device has a CCD light receiving portion.--

--78. An electronic device according to claim 14, wherein the electronic device has a CCD light receiving portion.--

--79. An electronic device according to claim 15, wherein the electronic device has a CCD light receiving portion.--

--80. An electronic device according to claim 16, wherein the electronic device has a CCD light receiving portion.--

--81. An electronic device according to claim 17, wherein the electronic device has a CCD light receiving portion.--

--82. An electronic device according to claim 18, wherein the electronic device has a CCD light receiving portion.--

--83. An electronic device according to claim 19, wherein the electronic device has a CCD light receiving portion.--

--84. An electronic device according to claim 2, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--85. An electronic device according to claim 3, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--86. An electronic device according to claim 4, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--87. An electronic device according to claim 5, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--88. An electronic device according to claim 6, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--89. An electronic device according to claim 7, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--90. An electronic device according to claim 8, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--91. An electronic device according to claim 9, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--92. An electronic device according to claim 10, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--93. An electronic device according to claim 11, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--94. An electronic device according to claim 12, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--95. An electronic device according to claim 13, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--96. An electronic device according to claim 14, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--97. An electronic device according to claim 15, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--98. An electronic device according to claim 16, wherein:
the display portion has a touch panel; and

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an image written into the touch panel is read in as electronic data.--

--99. An electronic device according to claim 17, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--100. An electronic device according to claim 18, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--101. An electronic device according to claim 19, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--102. An electronic device according to claim 20, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

--103. An electronic device according to claim 21, wherein:
the display portion has a touch panel; and
an image written into the touch panel is read in as electronic data.--

REMARKS

Claims 1-103 are pending in this application with claims 1, 3-9, 12-15, and 23-30 being independent. Claims 10, 11, and 16-22 have been amended and claims 31-103 have been added. Support for the amendments and the new claims is found in claims 1-30 as filed.

Attached is a marked-up version of the changes made to the claims by the current preliminary amendment. The attached page is captioned "**Version with markings to show changes made.**"

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Applicant submits that all of the claims are in condition for allowance. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

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Claims 10, 11, and 16-22 have been amended as follows:

the EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.

16. (Amended) An electronic device according to **[any one of claims 12-15]** claim 12,
wherein:

the first EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.

17. (Amended) An electronic device according to **[any one of claims 12-16]** claim 12, wherein the strength of light emitted by the first EL elements is equal to or greater than 251 m/W.

18. (Amended) An electronic device according to **[any one of claims 12-17]** claim 12,
wherein:

the second EL elements each have an anode, a cathode, and an EL layer formed between the anode and the cathode; and

the external quantum efficiency of the EL layer is equal to or greater than 10%.

19. (Amended) An electronic device according to **[any one of claims 12-18]** claim 12, wherein the maximum value of the strength of light emitted by the second EL elements is equal to or greater than 251 m/W.

20. (Amended) An electronic device according to **[any one of claims 1-19]** claim 1, wherein the electronic device has a CCD light receiving portion.

21. (Amended) An electronic device according to claim 20, wherein an image is taken in as electronic **[date]** data in the CCD light receiving portion.

22. (Amended) An electronic device according to **[any one of claims 1-21]** claim 1, wherein:

the display portion has a touch panel; and

an image written into the touch panel is read in as electronic data.

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